

DEPC-1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant DEPC-1.

Catalog # AT1755a

Product Information

Application	WB, E
Primary Accession	Q96Q83
Other Accession	BC015155
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	2A5-4F5
Calculated MW	33375

Additional Information

Gene ID	221120
Other Names	Alpha-ketoglutarate-dependent dioxygenase alkB homolog 3, 11411-, Alkylated DNA repair protein alkB homolog 3, DEPC-1, Prostate cancer antigen 1, ALKBH3, ABH3, DEPC1
Target/Specificity	DEPC-1 (AAH15155, 1 a.a. ~ 139 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	DEPC-1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

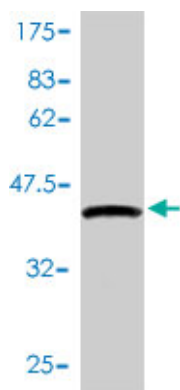
The Escherichia coli AlkB protein protects against the cytotoxicity of methylating agents by repair of the specific DNA lesions generated in single-stranded DNA. ALKBH2 (MIM 610602) and ALKBH3 are E. coli AlkB homologs that catalyze the removal of 1-methyladenine and 3-methylcytosine (Duncan et al., 2002 [PubMed 12486230]).

References

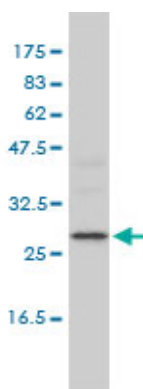
Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar.

PMID 18029348.Prostate cancer antigen-1 as a potential novel marker for prostate cancer. Liu BQ, et al. Asian J Androl, 2007 Nov. PMID 17968469.Human ABH3 structure and key residues for oxidative demethylation to reverse DNA/RNA damage. Sundheim O, et al. EMBO J, 2006 Jul 26. PMID 16858410.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.Repair of methylation damage in DNA and RNA by mammalian AlkB homologues. Lee DH, et al. J Biol Chem, 2005 Nov 25. PMID 16174769.

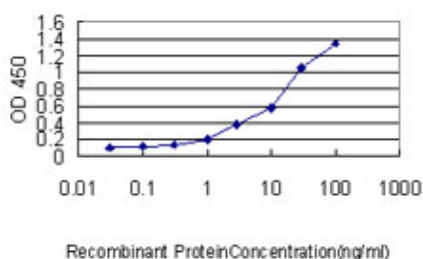
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (41.03 KDa) .



DEPC-1 monoclonal antibody (M01), clone 2A5-4F5
Western Blot analysis of DEPC-1 expression in K-562 ((Cat # AT1755a)



Detection limit for recombinant GST tagged DEPC-1 is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.